

# **PROBLEM SUMMARY**







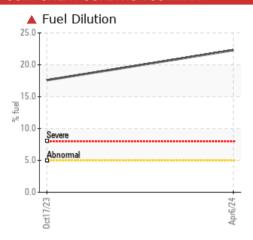


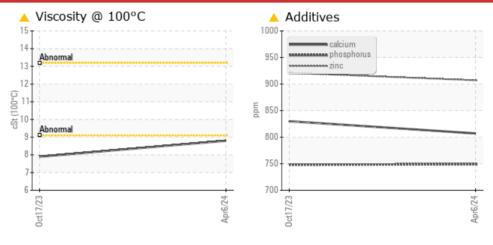
RONI
Machine Id

162
Component
Diesel Engine
Fluid

PETRO CANADA 10W30 (--- GAL)

## COMPONENT CONDITION SUMMARY





## RECOMMENDATION

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE				
Calcium	ppm	ASTM D5185(m)		<b>A</b> 807	<u></u> 830				
Fuel	%	ASTM D7593*	>5	<b>22.3</b>	<b>1</b> 7.6				
Visc @ 100°C	cSt	ASTM D7279(m)		<b>A</b> 8.8	<b>1</b> 7.9				

Customer Id: RONVAU Sample No.: WC0920880 Lab Number: 02629166 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

## HISTORICAL DIAGNOSIS

## 17 Oct 2023 Diag: Wes Davis

FUEL



We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Visc @ 100°C is severely low. Calcium ppm levels are abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



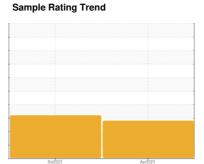


# **OIL ANALYSIS REPORT**



RONI 162 **Diesel Engine** 

PETRO CANADA 10W30 (





## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

## Fluid Condition

Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

30 ( GAL)			0ct2023	AprŽ024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920880	LH0275204	
Sample Date		Client Info		06 Apr 2024	17 Oct 2023	
Machine Age	hrs	Client Info		0	8255	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				SEVERE	SEVERE	
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	11	14	
Chromium	ppm	ASTM D5185(m)	>20	0	<1	
Nickel	ppm	ASTM D5185(m)	>2	0	0	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	<1	
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	
Lead	ppm	ASTM D5185(m)	>40	0	0	
Copper	ppm	ASTM D5185(m)	>330	2	<1	
Tin	ppm	ASTM D5185(m)	>15	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		5	8	
Barium	ppm	ASTM D5185(m)		0	<1	
Molybdenum	ppm	ASTM D5185(m)		45	46	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		747	742	
Calcium	ppm	ASTM D5185(m)		<b>A</b> 807	<u></u> ▲ 830	
Phosphorus	ppm	ASTM D5185(m)		749	748	
Zinc	ppm	ASTM D5185(m)		907	921	
Sulfur	ppm	ASTM D5185(m)		1918	1894	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	1	3	
Sodium	ppm	ASTM D5185(m)		1	2	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Fuel	%	ASTM D7593*	>5	<b>22.3</b>	<b>▲</b> 17.6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.2	
Nitration	Abs/cm	ASTM D7624*	>20	10.8	10.5	
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	19.8	



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02629166

: WC0920880 Unique Number : 5762298

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD. Received : 16 Apr 2024 Tested

: 17 Apr 2024 Diagnosed Test Package : MOBCE ( Additional Tests: PercentFuel )

: 17 Apr 2024 - Wes Davis

CA L4K 4P3 Contact: Service Team service.team@roni.ca T:

100 MACINTOSH BLVD

VAUGHAN, ON

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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